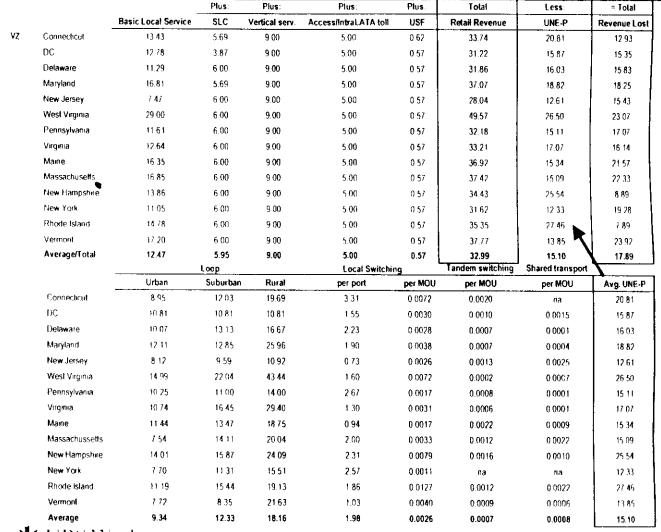
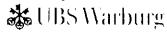


#### UNE-P Economics: Revenue Impact - Verizon

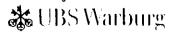




#### UNE-P Economics: Revenue Impact - Qwest

		Plus:	Plus:	Plus:	Plus.	Total	Less	= Total
	Basic Local Service	SLC	Vertical serv.	Access/IntraLATA toll	USF	Retail Revenue	UNE-P	Revenue Lost
Arizona	13 18	6 00	8 00	5.00	0.56	32.74	28.10	4.64
Colorado	14 92	6 00	8.00	5 00	0.56	34 48	12.88	21 60
ldaho	14 48	6 00	8.00	5.00	0.56	34.04	22.44	11 59
lowa	1168	4 72	8 00	5 00	0.56	29 96	17 15	12.81
Minnesota	14.36	4 89	8.00	5.00	0.56	32 81	13.45	19 36
Montana	16.73	6 00	8.00	5.00	0.56	36.29	27.34	8 95
Nebraska	19 23	5 16	8.00	5.00	0.56	37.95	25.19	12 75
New Mexico	10 56	6 00	8.00	5.00	0.56	30.22	21.74	8 48
North Dakota	17 69	6 00	8.00	5.00	9 56	37.25	22.90	14.35
Oregon _	13 80	6.00	8 00	5 00	0.56	33 36	20.66	12.70
South Dakota	16 65	6 00	8 00	5.00	0 56	36 21	23.54	12 67
Utah	11.03	6 00	8.00	5 00	0.56	30 59	19.45	11 14
Washington	12 50	5 92	8 00	5.00	0.56	31.98	10.72	21.26
Wyoming	23 10	6 00	8 00	5.00	0.56	42 66	28.26	14 40
Average/Total	13.75	5.75	8.00	5.00	0.56	33.06	18.33	14.73
						Tandam awikahina	Charadteranana	T

_		Loop		Local Swite	hing	Tandem switching	Shared transport	
_	Urban	Suburban	Rural	per port	per MOU	per MOU	per MOU	Avg. UNE-P
Arizona	18.96	34 94	56 53	161	0.0028	0.0014	0.0009	28 10
Colorado	5.91	12 31	32 79	1.86	0.0020	0.0020	0 0020	12.88
Idaho	15.81	24 01	40 92	1.34	0.0017	0.0032	0.0022	27 44
lowa	13 11	15 64	27 27	1 15	0 0007	0.0042	0.0013	17 15
Minnesota	8.81	12 33	2191	1.08	0.0018	0.0013	0.0015	13 45
Montana	23 10	23 90	27.13	1.58	0 0007	0.0068	0.0015	27.34
Netraska	15 14	35 05	77 92	2.47	0 0007	0.0026	0.0012	25 19
New Mexico	17.75	20 30	25 23	1.38	0 0011	0.0016	0 00 19	21.74
North Dakola	14 78	24.92	56 44	1.27	0.0007	0.0084	0 0044	22.90
Oregon	13 95	25 20	56 21	1.26	0 0013	0.0016	0 0000	20 66
South Dakota	17.01	18 54	24 37	1.84	0 0035	0.0017	0.0014	23 54
Utah	14 77	17 76	20 29	0 94	0 0026	0.0011	0 0009	19 45
Washington	6.41	11 35	12.76	1.34	0.0012	0.0014	0.0022	10 72
Wyoming	19.91	26 94	30 13	2.64	0 0038	0 00 16	0 0003	28 26
Average	12.17	19.86	34.72	1.46	0.0017	0.0020	0.0014	18.33





#### **UNE-P** Economics: Calculating the Impact

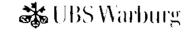
#### 2) Estimated Average *Retail* COGS and SG&A per Line Based on Existing Wireline EBITDA Margins

- Assumes residential wireline margins are equivalent to total wireline margins

#### 3) Calculated Wholesale EBITDA Contribution

- a) Estimated average wholesale COGS and SG&A per line
  - Assume 5% avoided cost in COGS; 20% avoided cost in SG&A
- b) Compared this cost structure to revenue from wholesale UNE-P rates

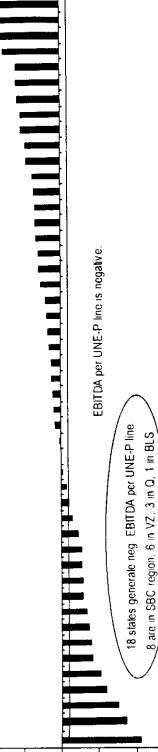
	COGS	S,G&A	EBITDA	% of COGS	% of S,G&A	Calculated
	(% of sales)	(% of sales)	margins	avoided	avoided	<b>EBITDA</b> margins
SBC	35%	25%	40%	5%	20%	-24%
VZ	31%	24%	45%	5%	20%	-4%
BLS	27%	23%	50%	5%	20%	13%



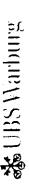
# JNE-P Economics: Calculating the Impact

## **♦ EBITDA Per Line**

- SBC UNE-P Average (\$3.51) vs. Retail Average \$13.53
- BellSouth UNE-P Average \$2.47 vs. Retail Average \$18.12
- Verizon UNE-P Average (\$0.68) vs. Retail Average \$14.59
- Qwest UNE-P Average \$1.03 vs. Retail Average \$14.69



AR ALL BEWYCO YEGAWOLER KYMANA MEKA WENEPA IN MODED/YMONGA IY OK TA FEWASCIACOPAD FEMS CESDED AV SEALWANDA MENTEN MA Source: UBS Warburg LLC and company reports



John Hodulik, CFA (212) 713-4226, john.hodulik@ubsw.com

# UNE-P Economics: Profitability Impact - SBC

					\$	200	Wholesale Promability					
		Gross			coes	Gross	S,G&A exp.	<u> </u>	EBITDA	EBITDA Lost/	101	FCF Local
	\$900	Profit	S,G&A exp.	EBITDA	95% of ret. COGS	Profit	80% of ret. S.G&A EBITDA			Revenue Lost	lost	Revenue Lost
Minois	10.85	20 14	7.75	12.40	10 30	-139	6.20 7.58	92	19 98	89.0%	13.30	60%
Indiana	■ 20	20 79	8 00	12.80	10 64	6 44	6 40 0 0 04	4	12.76	83.2%	3.55	76 Ye
Michigan	14.11	26.20	10 08	16 12	13 40	.067		<u></u>	24.85	88 7%	16.65	20 N
Ohio	11 76	21.84	8 40	13 44	11 17	3.24			16.42	96 3%	1 2	23 /6 6 0 0 4
Wisconson	13 64	25.34	9.75	15 59	12 96	6 72			16.67	96.3%		5.797
California	10.28	19 09	7.34	11 75	116	191		<u> </u>	15.71	%550 %598	10.53	W /C
Connections	11 28	20 95	8 06	12 89	10 72	10 09		· ·	9.25	%0.00 76.89%	06.30	
Nevada	10 50	19.51	7.50	12 00	9 6	11 19			683	70.07	0.70	9/ 1 C
Arkansas	17.90	33 25	12 79	20 46	17 01	0 44		67	31 13	2° 00 88	200	9/ 6/34 F
Kansas	11 78	21.87	841	13.46	11 19	5 20		5 52	14 90	8/ B D D	10 00	J3./A
Missouri	1264	23.47	9.03	14 44	12 00	7 36			30. 11	943.8	3 0	W /C
Oklahoma	11 02	20.46	787	12 59	10 47	7 98			10 91	30 V%	2 ~	B OF
Texas	13.70	25.45	67.6	15 66	13 02	89			18.50	95 FW.	12.46	e 5
Average/Total	11.83	21.98	8.45	13.53	11.24	3.25			17.04	85 7%	11 41	w //
Avg. Ameritech	12.16	22.58	8.59	13.90	11.55	1.85	·		8.99	87.4%	12.73	. % . %







#### UNE-P Economics: Profitability Impact - BellSouth

	•
	-
•	
14	
W.	
100	

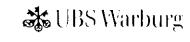
		Retail Pro	fitability		Ψ	Vholesale	Profitability			_		
	Gross				cogs	Gross	S,G&A exp.		EBITDA	EBITDA Losti	FCF	FCF Lost
	cogs	Profit	S,G&A exp.	EBITDA	95% of ret COGS	Profit	80% of ret S,G&A	EBITDA	lost	Revenue Lost	iost	Revenue Lost
Alabama	10 48	28 32	8 92	19 40	9 95	12.86	7 14	5 73	13 67	83 0%	9 04	55%
Florida	9 05	24 46	7.71	16.75	8 59	8 10	6 16	1.93	14 82	85.6%	9 79	57%
Georgia	10 79	29 16	9 19	19 98	10 25	8 55	7 35	1 20	18 78	86.8%	12.41	5/%
Kentucky	11 04	29.86	9.41	20 45	10 49	4 63	7 53	2.89	23 34	88 9%	15 43	59%
Louisiana	9 49	25 65	8 08	17 57	9 0 1	14 06	6 47	7.60	9.97	79.4%	6 59	52%
Mississippi	11 21	30.30	9 55	20 76	10 65	11 12	7 64	3 48	17.27	85.4%	1141	56%
North Carolina	9 64	26 05	8 21	17 85	9 15	9 54	6 57	2 97	14 87	85 1%	9.83	56%
South Carolina	10 13	21 40	8 63	18 77	963	9 80	6 91	2 89	15 87	85 4%	10 49	56%
Tennessee	9 36	25 29	7 97	17 33	8 89	8 29	6 38	191	15 41	85.8%	10 18	57%
Average/Total	9.78	26 45	8.33	18.12	9.29	9.13	6.67	2.47	15.65	85.3%	10.34	57%



#### UNE-P Economics: Profitability Impact - Verizon



		Retail Pro	Rability			Hespion	Promading					
		Gross			COGS	Gross	S,G&A exp.		EBITDA	EBITDA Losti	FCF	FCF Lost/
	cogs	Profit	S,G&A exp.	EBITDA	95% of ref COGS	Profit	80% of ret. S,G&A	EBITDA	lost	Revenue Lost	lost	Revenue Lost
Connecticut	10 27	22 85	7 95	14 90	9 75	11 05	6 36	4 69	10.21	78 9%	6 75	52%
DC	9 50	21 15	7 36	13 79	9 03	6 84	5 88	0.96	12.84	83.6%	8 48	55%
Delaware	910	21 59	7.51	14 08	9.21	6.81	6 01	0.80	13 28	83.9%	877	55%
Maryland	11 32	25 19	8 76	16 43	10 75	8 07	7.01	1 06	15 37	84 2%	10 15	56%
New Jersey	8 52	18 95	6.59	12 36	8 09	4 52	5 27	-0.75	13 11	85 0%	867	56%
West Virginia	15 19	33 81	11 76	22 05	14 43	12 07	941	2 66	19 39	84 0%	12.81	56%
Pennsylvania	9 80	21.81	7 59	14 22	9 31	5 81	6 07	0.26	14 49	84 9%	9 57	56%
Virginia	10 12	22 52	7.83	14 69	961	7 45	6 27	1 19	13 50	83 6%	8 92	55%
Maine	11.27	25 08	8.72	16 36	10 70	4 64	6 98	-2 34	18 69	86.7%	12.35	57%
Massachusetts	11 42	25.43	8 84	16 58	10 85	4 24	7 08	-2 84	19 42	87.0%	12.83	57%
New Hampshire	10 50	23 36	8 13	15 23	9 97	15 57	6 50	9 07	6 17	69 4%	4 08	46%
New York	962	21 42	7.45	13 97	9 14	3 19	5 96	277	16 74	86 8%	11.06	57%
Rhode Island	10.78	24 00	8 35	15 65	10 24	17 22	6 68	10 54	5 11	64.8%	3 38	43%
Vermont	11.53	25 67	8 93	16 74	10 96	2 89	7 14	4 25	20 99	87.7%	13.87	58%
Average/Total	10.05	22.37	7.78	14.59	9.55	5.55	6.22	-0.68	15.26	85.3%	10.09	56%

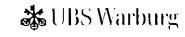


Retail Profitability



#### **UNE-P Economics: Profitability Impact - Qwest**

			Retail Pro	fitability		Ψ	/holesale	Profitability					
			Gross			cogs	Gross	S,G&A exp.		EBITDA	EBITDA Lost/	FCF	FCF Lost/
		cogs	Profit	S,G&A exp.	EBITDA	95% of rell COGS	Profit	80% of ret S,G&A	EBITDA	lost	Revenue Lost	iost	Revenue Lost
فصو	Arizona	11 26	20 92	8 05	12 87	10 70	17.40	6 44	10 97	191	41 1%	1 05	23%
**	Colorado	<b>1</b> 1 87	22 05	8 48	13 57	11.28	1 60	6 78	5 19	18 75	86 8%	10.31	48%
	ldaho	11.72	21.76	8 37	13 39	11 13	11 31	6.70	4 62	8 77	75.7%	4.83	42%
	lowa	10 29	19 11	7 35	11 76	9.78	7 38	5 88	1 50	10 26	80.1%	5 64	44%
	Minnesota	11 29	20.96	8 06	12 90	10 72	2 72	6 45	3 73	16.63	85 9%	9 14	47%
	Montana	12.51	23 22	8 93	14 29	11.88	15 46	7 15	8 32	5 97	66 8%	3 29	3/%
	Nebraska	13 08	24.30	9 35	14 95	12 43	12 76	7 48	5 29	9 67	75 8%	5 32	42%
	New Mexico	10 38	19 28	7 42	11 86	9 86	11 88	5 93	5 95	5 9 1	69.8%	3 25	38%
	North Dakota	12 84	23.85	9 17	14 68	12 20	10.70	7 34	3 36	11 31	78.8%	6 22	43%
	Oregon	11 48	21.32	8 20	13 12	10 91	9.75	6 56	3 19	9 93	78 2%	5 46	43%
	South Dakola	12 48	23 17	8 91	14 26	11 85	1169	7 13	4 56	9 70	76 6%	5 33	42%
	Ulah	10 51	19.52	7 51	12 01	9 98	9 46	6 0 1	3 46	8 56	76.8%	471	42%
	Washington	11 00	20 42	7 86	12.57	10 45	0 28	6 28	6.01	18 57	87.4%	10 22	48%
1	Wyoming	14 74	27 37	10 53	16 84	14 00	14 26	8 42	5 84	11 00	76 4%	6 05	42%
7	Avera ge/Total	11.38	21.13	8.13	13.00	10.81	7.53	6.50	1.03	11.98	81.3%	6.59	45%





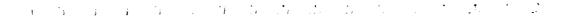
#### **UNE-P** Economics: Calculating the Impact

#### **4** 4) Estimated Future Line Loss in Each State

- SBC: Lost 692K lines to UNE-P in 2Q, up from 358K in 1Q
  - We believe roughly half of these were in June alone
  - AT&T entered IL and OH in mid-June, CA in early August
  - We expect line loss of 1m in Q3 and 1.2m in Q4
- BellSouth: Lost 278K lines to UNE-P in 2Q, up from 239K in 1Q
  - Losing 100-120/ quarter to reseller in Florida
  - AT&T in Georgia and is likely to enter Florida as well
  - We expect line loss of 300K in Q3 and 400K in Q4
- Verizon: Lost 110K lines to UNE-P in 2Q, up from 64K in 1Q
  - AT&T increasing marketing expenditures in New York
  - Announced entry into New Jersey in September
  - Expect to enter Pennsylvania in 4Q
  - We expect line loss of 230K in Q3 and 500K in Q4

# UNE-P Economics: UNE-P Line Projections

Access Lines				2	2005
61.254 60.578 60.230 59.532 59.036 58.255 57.325 62.903 62.903 62.465 61.967 61.551 61.227 60.373 58.027 75.898 25.666 25.575 25.422 25.425 25.138 24.837 17.929 17.808 17.687 17.454 17.250 16.955 16.730 167.984 166.517 165.459 162.938 160.721 156.920 17.799 17.808 17.687 17.454 17.250 16.955 16.730 167.984 166.517 165.459 162.938 160.721 156.920 17.790 17% 0.8% 14.8% 2.7% 3.8% 4.8% 64.% 0.1% 0.8% 14.8% 2.1% 2.7% 3.8% 4.8% 5.4% 1.9% 17.60 2.19% 2.19% 2.7% 3.8% 2.8% 3.8% 4.8% 5.4% 1.3% 0.1% 0.8% 14.8% 2.19% 2.19% 2.259 2.369 2.599 3.03 3.85 5.05 601 840 1118 1.418 1.418 4.51 4.51 4.51 4.51 4.51 5.55 6.351 7.452 9.017 1.373 1.750 7.591 5.552 6.351 7.452 9.017 1.373 1.750 7.99 2.44 3.58 6.3 57 6.4 3.3 8 2.1 3.5 5.0 1.000 0.8 6 3.8 5.2 6.351 7.452 9.017 1.3 6.9 17.0 9.6 2.3 9 2.101 1.5 6.5 3.9 1.101 1.5 6.5 3.9 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0					
62.903 62.465 61.967 61.551 61.227 60.373 58.027 25.898 25.696 25.575 25.425 25.425 25.138 24.837 17.929 17.808 17.687 17.454 17.250 16.955 16.730 167.984 166.517 165.439 162.938 162.938 160.721 156.920 17.928 17.808 17.839 162.938 160.721 156.920 17.928 11.7% 2.8% 3.6% 3.8% 4.8% 0.6% 0.4% 1.14% 2.11% 2.7% 3.3% 6.4% 0.1% 0.8% 1.4% 2.11% 2.7% 3.3% 6.4% 0.1% 0.8% 1.4% 3.5% 3.8% 4.8% 5.4% 3.8% 4.453 1.760 2.159 2.259 2.369 2.369 2.599 3.03 3.03 3.85 5.05 6.01 840 1.118 1.418 4.31 4.51 4.59 45.3 491 5.12 5.403 2.403 2.761 3.453 4.453 1.750 2.403 2.403 2.761 3.453 4.453 1.750 2.403 2.403 2.761 3.453 4.453 1.375 4.689 5.261 5.652 6.351 7.452 9.017 3.752 4.689 5.261 5.652 6.351 7.452 9.017 3.752 4.689 5.261 5.652 6.351 7.452 9.017 2.78 3.00 na 20 8 6 38 21 35 30 214 3.5 38 21 3.5 398 2.101 1.565 3.00  2.2% 2.9% 3.4% 3.5% 3.5% 3.7% 3.9% 4.5% 1.001 2.2% 2.5% 3.4% 3.5% 3.7% 3.9% 4.5% 1.001 2.2% 2.5% 3.4% 3.5% 3.7% 3.9% 4.5% 1.001 2.2% 2.5% 3.4% 3.5% 3.7% 3.9% 4.5% 1.001 2.2% 2.5% 3.4% 3.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.9% 2.2% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.9% 4.5% 3.7% 3.9% 2.2% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.7% 3.7% 3.7% 3.9% 4.5% 3.7% 3.7% 3.7% 3.7% 3.7% 3.7% 3.7% 3.7	0 0/7/10	59,532 56,345	15 54 349	53 676	53 271
75.898				54 120	52.073
17,929 17,808 17,587 17454 17,750 16,955 16,730 167,984 166,517 165,459 163,959 162,938 160,721 156,920 1 0 2% 11% 17% -2.8% .3.6% .3.8% 48% 0.6% 0.4% .1.4% .2.1% .2.1% .2.7% .3.3% 6.4% 0.1% 0.8% .1.4% .1.9% .1.8% .2.1% .2.1% .2.1% .2.1% .2.1% .2.1% .3.8% 48% 0.1% 0.8% .1.4% .3.5% .3.8% 4.8% .5.4% .3.8% 1.760 2.159 2.2.89 2.2.89 2.3.69 2.2.89 3.03 3.03 3.05 5.05 6.01 840 1.118 1.418 1.418 4.31 4.51 4.59 4.53 4.53 4.53 4.53 4.53 4.53 4.53 4.53				21.70	32.756
167,984 166,517 165,459 162,938 162,938 160,721 156,920 1  0 2% 11% 17% 28% 36% 36% 38% 48% 064% 06% 04% 14% 2.1% 2.1% 2.7% 33% 64% 01% 08% 14% 19% 3.5% 3.8% 48% 5.4% 3.1% 0.1% 0.8% 14% 3.5% 3.8% 4.8% 5.4% 3.1% 0.3% 0.7% 1.6% 2.403 2.761 3.453 4.453 1.645 2.093 2.188 2.195 2.259 2.369 2.599 3.03 3.85 5.05 6.01 840 1.118 1.418 4.31 4.51 4.59 4.53 4.91 5.19 5.47 3.37 3.752 4.689 5.261 5.652 6.351 7.452 9.017 3.752 4.48 4.5 5.7 64 110 2.30 7.9 8.7 6.4 3.8 6.3 1.101 1.565 3.9 6.0 3.8 3.1 3.5 6.4 3.8 6.3 3.7 6.4 3.8 6.3 3.7 6.4 3.8 6.3 3.7 6.4 3.8 6.3 3.7 6.4 3.8 6.3 3.7 6.4 3.8 6.3 3.7 6.4 3.8 6.3 3.7 6.4 3.8 6.4 5.9 6				16.079	077.67
02% 11% 17% -28% -36% -38% 48% 06% 06% 04% -14% -21% -27% -33% 64% 01% 01% 08% 14% -19% -18% -31% -21% -29% 01% 08% 19% -35% -3.0% -3.5% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -3.5% -		-	149,246	146,797	145,630
0.2% 11% 17% -2.8% 3.6% 3.8% 4.8% 0.6% 0.4% -1.4% -2.1% -2.7% 3.3% 6.4% 0.1% 0.8% 14% -1.9% -1.9% -1.8% -2.1% -2.7% 3.3% 6.4% 0.1% 0.8% 1.4% -3.5% -3.8% 4.8% -5.4% -1.9% -0.7% -1.6% -2.5% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5% -5.2% -3.0% -3.5					
0 6% 0 4% -1 4% -2 1% -2 7% -3 3% 6 4% 0 11% 0 8% -1 4% -1 9% -1 8% -2 1% -2 1% -2 9% 0 11% 0 8% -1 4% -3 5% -3 6% -4 8% -5 4% -9 8% -1 6% -2 5% -3 10% -3 5% -5 2% -3 10% -3 5% -5 2% -3 10% -3 10% -3 10% -5 2% -3 10% -3	%b ()	78% 54%	7 7 7 7	90	è
0 1% 0 8% 1 4% .19% .18% .2 1% .2 9% 0 1% 0 8% .1 6% .2 5% .3 8% 4 8% 5 4%.  0 3% .0 7% .1 6% .2 5% .3 6% .3 5% 5 2% .3 6% .3 5% .3 5% .3 6% .5 2% .3 6% .3				%/ 1	, c 8%
9 0.1% 0.8% .19% .35% .38% 48% 5.4%.  13.73 1.760 2.159 2.403 2.761 3.453 4.453 1.645 2.093 2.138 2.195 2.299 2.369 2.599 303 385 505 601 840 1.118 1.418 4.31 451 459 453 491 512 547 3.752 4.689 5.261 5.652 6.351 7.452 9.017 1  15 361 387 399 244 358 69 7.10 2.30 79 82 120 96 239 278 300 79 82 120 96 239 278 300 79 82 120 96 239 1.101 1.565  10 10 22% 2.9% 3.6% 4.0% 4.7% 5.9% 7.8% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2				% C U	850
• 0.3% -0.7% -1.6% -2.5% -3.0% -3.5% -5.2% -5.2% -1.303 1.750 2.159 2.403 2.761 3.453 4.453 1.645 2.093 2.138 2.195 2.259 2.369 2.599 3.03 3.05 5.05 6.01 840 1.118 1.418 1.418 4.31 4.51 4.59 5.261 5.652 6.351 7.452 9.017 1.35  3.752 4.689 5.261 5.652 6.351 7.452 9.017 1.35  3.752 4.88 3.09 2.44 3.58 6.351 7.452 9.017 1.35  3.78 3.98 9.37 5.72 3.91 6.99 1.101 1.565 1.000  2.2% 2.9% 3.6% 4.0% 4.7% 5.9% 7.8% 1.500  2.2% 2.9% 3.6% 3.6% 3.7% 3.9% 4.5% 1.2% 2.5% 3.4% 3.5% 3.6% 3.7% 3.9% 4.5% 1.2% 2.5% 3.4% 3.5% 3.6% 3.7% 3.9% 4.5% 1.2% 2.5% 3.4% 3.5% 3.6% 3.7% 3.9% 4.5% 1.2% 2.5% 3.4% 3.5% 3.6% 3.7% 3.9% 4.5% 1.2% 2.5% 3.4% 3.5% 3.6% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.9% 3.5% 3.7% 3.9% 4.5% 1.2% 3.2% 3.5% 3.7% 3.9% 4.5% 1.2% 3.5% 3.7% 3.9% 4.5% 1.2% 3.2% 3.5% 3.7% 3.9% 4.5% 1.2% 3.2% 3.6% 3.6% 3.6% 3.6% 3.6% 3.6% 3.6% 3.6	19%			80 t	2 19%
1.37.3 1,750 2,159 2,403 2,761 3,453 4,453 1645 2,2093 2,136 2,599 3,03 3,83 3,85 5,05 601 840 1,118 1,418 4,31 4,51 4,52 4,689 5,261 5,652 6,351 7,452 9,017 1 3,752 4,689 5,261 5,652 6,351 7,452 9,017 1 4,2 4,48 4,5 5,7 64 110 2,30 2,4 4,8 4,5 5,7 64 110 2,30 2,4 3,58 6,3 3,7 8,3 3,5 8,3 3,7 8,3 3,9 8,4 5,8 1,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5 5,5	1.3%			.1.6%	%8.0- -0.8%
1.373 1,750 2159 2,403 2,761 3,453 4,453 1,545 2,093 2,138 2,195 2,259 2,369 2,599 3,63 3,85 505 601 840 1,118 1,418 1,418 431 451 452 6,351 7,452 9,017 1,155 3,40    1.5 361 387 379 2,44 358 652 9,017 1,100    1.5 361 387 379 2,44 358 652 9,017 1,100    1.6 36 3,48 40% 40% 47% 5,9% 7,8% 1,565    2.2 2% 2,9% 3,6% 4,0% 4,7% 5,9% 7,8% 1,500    2.2 2% 2,9% 3,6% 4,0% 4,7% 5,9% 7,8% 1,500    2.2 2% 2,9% 3,6% 4,0% 4,7% 5,9% 7,8% 1,500    2.2 2% 2,9% 3,6% 3,6% 3,7% 3,9% 4,5% 1,5% 1,5% 1,5% 1,5% 1,5% 1,5% 1,5% 1					
1645 2,093 2,136 2,195 2,259 2,369 2,599 36.9 36.8 36.9 36.8 45.9 45.3 491 1118 1,418 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.18 4.14 4.14	1,012	2.403 5.653	3 9.067	10,798	11.852
303 385 505 601 840 1118 1,418  431 451 459 453 491 512 547  3.752 4,689 5,261 5,652 6,351 7,452 9,017 1  42 448 45 57 64 110 230  79 87 120 96 239 278 300  8 -6 38 21 35  398 937 572 391 699 1,101 1,565  tion  2 2% 2 9% 3 6% 4 0% 4 7% 5 9% 7 8% 1 5% 1 5% 1 5% 1 5% 1 5% 1 5% 1 5% 1		_		6 2 9 9	7 200
15 4.689 5.261 5.652 6.351 7.452 9.017 1  18 361 387 399 244 358 692 1,000  19 87 120 96 239 278 300  19 87 120 96 239 278 300  10 22% 29% 36% 40% 47% 5.9% 7.8% 1 20  2 6% 34% 3.5% 3.6% 3.7% 3.9% 4.5% 1 20  2 6% 34% 3.5% 3.6% 3.8% 4.5% 1.000				A 2 18	2197
15 361 387 379 244 358 652 1,000  42 448 45 57 64 110 230  79 87 170 96 239 278 300  na 20 8 6 38 21 35  398 937 572 391 699 1,101 1,565 2  tion  22% 29% 36% 40% 47% 5.9% 78% 11  26% 34% 35% 3.6% 3.7% 3.9% 45% 11  26% 34% 35% 3.6% 3.7% 3.9% 45% 11	па			1.052	1 167
361 387 399 244 358 692 i.uuu 42 448 45 57 64 110 230 79 87 170 96 239 278 300 na 20 8 -6 38 21 35 398 937 572 391 699 1,101 1,565 2 22% 29% 36% 40% 47% 5,9% 7,8% 11 26% 34% 35% 3,6% 3,7% 3,9% 4,5% 11 26% 3,4% 3,5% 3,6% 3,7% 3,9% 4,5% 11	2,923	5,652 11,152	18	22,367	25,136
361 387 309 244 358 657 i,uuu 42 448 45 57 64 110 230 79 87 170 96 739 278 300 na 20 8 -6 38 21 35 398 937 572 391 699 1,101 1,565 2 22% 29% 36% 40% 47% 5.9% 78% 14 26% 34% 35% 3.6% 3.7% 3.9% 4.5% 14					
42     448     45     57     64     110     230       79     87     120     96     239     278     300       na     20     8     -6     38     21     35       398     937     572     391     699     1,101     1,565       22%     29%     36%     40%     47%     59%     78%       26%     34%     35%     36%     37%     39%     45%       37%     45%	La La	1.391 3.250	3.414	1 731	1 055
79 87 170 96 739 778 300 na 20 8 -6 38 21 35 300 398 937 572 391 699 11.101 1.565 22% 29% 36% 40% 47% 5.9% 7.8% 26% 34% 3.5% 3.6% 3.7% 3.9% 4.5% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2% 1.2	na	_		1400	000
22% 29% 36% 40% 47% 59% 78% 25% 25% 29% 36% 36% 36% 35% 36% 35% 36% 37% 39% 45%	БП	•		006	609
22% 29% 36% 40% 47% 59% 78% 12% 15% 16% 16% 16% 16% 16% 16% 16% 16% 16% 16	Bu	па 129		190	115
22% 29% 36% 40% 47% 59% 78% 26% 34% 35% 36% 3.0% 3.0% 3.0% 3.0% 3.0% 3.0% 3.0% 3.0	na	2,276 5,500	9	4,221	2,770
22% 29% 36% 40% 47% 5.9% 78% 26% 34% 35% 3.6% 3.7% 3.9% 45%					
26% 34% 35% 3.6% 3.7% 3.9% 45%	17%	4 0% 10 0%	76 74	30 + W	, הי
1,000 1,000 0,100 0,000	2.7%			116%	135%
0/07 0/01 0/71	%60		•	17.6%	20 3%
24% 25% 26% 26% 28% 30% 33%	กล			70%	, %O K
3.4% 3.9% 4.6%	1.7%	İ	-	15.2%	17 29/





#### **UNE-P Economics: What's the Call?**

#### Downgrading the Bells (BLS, SBC and VZ)

- Expect the group to perform inline with the market over the next 12 months
- Dividend yields should provide a backstop on valuations

#### Economics of UNE-P worse than expected for the Bells

- Will put additional pressure on Bell margins and earnings
- SBC and BellSouth are the most exposed

#### Line Losses Will Likely Accelerate in 2H02

- AT&T and MCI
- No near-term regulatory relief expected

#### Long Distance is Only a Partial Offset

- Local revenue is much higher margin than long distance
- To breakeven on the EBITDA line, Bells need to add 5.4 long distance customers for every UNE-P line added

#### 2003 EPS Estimates are Too High

— We now expect 2003 EPS to decline 1.8%; the Street still forecasts growth UBS Warburg

request.	
nodn	•
available	
information	
tional	1
Ę	

1
• •
_
SO
v.
98
~
ت
Ξ
.≘
Ξ
=
Ĕ
=
4
≌.
=
-
-
Ξ
~
J
_
0
ur.
٦
.≚
μ.

T. N/A	N/N S.II.S	O N/A				WCOM N/A	
	2		2	2	2,57	1.2	
	Bellsouth Corp	cations international	dions, Inc.	<u>.</u>	ucations	Voriginal Group	
AT&T Corp	Bellsouth Corp	S (West Communic	Society communications, Inc.	, aprinct ON Circu	West for a symmetrications	First World on Group	

1. UBS Warburg LLC and/or one of its affiliates makes a market in the securities of this company.

2. UBS Warburg LLC, UBS PaineWebber Inc. and/or one of their affiliates has acted as a manager/co-manager or placement agent in underwriting securities of this company or one of its subsidiaries in the past three years.

57. UBS Warburg LLG is acting as co-manager in underwriting securities of Verizon Wireless.







PRS Warburg LLC, 1285 Avenue of the Americas, New York, AV 16019
This report has been prepared by the group, arbitulate of UBS AC ("UBS") identified berein, in certain countries UBS AC is released to as UBS SA, UBS Warburg is a business group of UBS AC is released to as UBS SA, UBS Warburg is a business group of UBS AC is released to as UBS SA, UBS Warburg is a

This report is for distribution only under such ercomectures as may be permitted by applicable law. It has no repart to the specific investment objectives, furancial stitution or particular meets of any securities or related fundamental may be consistent or an other to buy or self-any securities or related from sources believed to be reliable but is more as a solicitation or an other to buy or self-any securities, maybe or an information obtained from sources believed to be reliable but is may precipied as a substitute for the exercise of their own judgement was plantined to be a complete statement or unitarities or developments releated to at the report. The report is organized in the report are subject to change without moures of their own judgement when the report are subject to change without more cased by the report are subject to change without more cased by the report are subject to change without more cased or interest and employees or closus may have each interest or the report. The report selections in the relevant securities or the report in an independent or the related formal interests or the report of the relevant securities or the report in an independent or the related formal interests or the related in the relevant securities or the related formal interests of the relevant securities or the related interests or the relevant or the related interests or the related interests or the r

representates herein may not be clightle for sale in all purisdictions or to certain categories of investors. Options, derivative products and tubines are outsument in the instrument in content for the certain categories of any security or related instrument mentioned in this report. For investment advice, taste execution or other enquires, cheins should contact their field sales. But describes our cating and testing in this report. For investment advice, taste execution or other enquires, cheins should contact their field be made assistant this report. Additional information with he made assistant their transfer of execution of this report.

Univerposities of the properties of the persons of the persons and rest of the persons who are universed to the persons of the

Whatsocyce for the actions of third parties in this report may not be reproduced or redistributed, in whole or in part, without the written permission of UBS and UBS accepts no hability





#### UNe-P: the Un-Profit

Regulation pressuring RBOC profits



industry update

RBOCs' core profit center is under severe attack from competitive forces. Regulators have reduced UNE pricing such that CLECs are using UNE lines to penetrate the residential and small business markets. In our view, until UNE pricing becomes more rational, the RBOCs will suffer steeper profitability squeezes from CLECs using UNE lines.

- ▶ CLEC penetration rising: By the end of 2001, according to the FCC, CLECs accounted for 10.2% of the nation's 192m switched lines, up from 7.7% 12 months earlier, a 32% increase in market share. Cable telephony lines are increasing at a slightly faster rate than overall CLEC lines. By the end of 2001, according to the FCC, cable telephone lines constituted 11% of CLEC lines (2.2m lines), and 1% of all switched lines.
- ▶ Lost ILEC profits: ILECs lost 1.5m lines in the last six months of 2001 in the form of UNEs (unbundled network elements) to CLECs, which we estimate comes to \$1bn in lost annualized sales, most of which is pure profit. In a six-month span, then, after taxes. ILEC bottom lines lost about \$325m in net income, and \$4.2bn in market capitalization. assuming a 13x P/E multiple. The Bells control about 94% of the nation's incumpent access lines, so the RBOCs, primarily through UNE, lost S4bn in market capitalization in the last half of 2001. The Bells currently have a \$220bh equity market cap, meaning that CLECs conceivably destroyed 2% of Bell equity value in the H2 2001
- ▶ Some CLEC overbuilding: In H2 01, CLECs gained 2.4m lines, which we believe was created exclusively at the expense of the ILECs, or 19,000 lines per business day. Some of these lines are lost to cable telephony or where CLECs build their own connections directly to businesses. In such cases, the CLEC has overbuilt, or completely severed the connection between the ILEC and the customer, removing the ILEC from 100% of their former revenue stream.
- Ratings: We maintain our Hold ratings on BellSouth Corp., Qwest Communications, SBC Communications and Verizon Communications.

PLEASE REFER TO THE TEXT AT THE END OF THIS REPORT FOR DUR DISCLAIMER AND ALL RELEVANT DISCLOSURES. IN RESPECT OF ANY COMPENDIUM REPORT COVERING SIX OR MORE COMPANIES. ALL RELEVANT DISCLOSURES ARE AVAILABLE ON OUR WEBSITE WWW. dr.Wivesearch.com or by Contacting DRKW RESEARCH DEPARTMENT. 20 FENCHURCH STREET, LONDON, EC3P 30B Online research; www.drkwresearch.com Bloomberg: DRKW<GO>

Urest on Kielmwarn Wasserstein Seturities 2.0. Regulated by AMS1 and AAS1, and militik nonduction investment business in the sin tho highborn 15A New York 75 Wall Stree (29th Lob) New York ANNOCCE 2889. This provides 47 010 429 3434 on HI 882 2066611 Faxi un ongløge 3462. A Mintry combit Dissorer Bank Group.

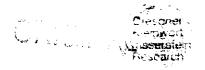
#### Hold

BellSouth Corporation Qwest Communications **SBC Communications** Verizon Communications

Bruce J. Roberts +1 212 429 3459 bruce.roberts@drkw.com

William P. Carrier +1 212 429 3457 william.carrier@drkw.com





### Investment summary and conclusion

Regulators are forcing unprofitable resale pricing upon the local industry through UNEs

The concern isn't the CLECs; with a weak capital market, and the techno bubble-burst, the money CLECs need to build out a local network IS NOT available in the public or bank markets. Ironically, the impact of CLEC competition has never been more NEGATIVE for RBOCs (we interchange the terms RBOCs and ILECs). Why? Because the regulators are forcing unprofitable resale pricing upon the local industry through Unbundled Network Elements, or UNEs. What are UNEs?

UNEs are network 'elements' – switching, copper lines, data base hookups, fiber trunks into office buildings, etc., that the RBOC is forced to lease to the CLEC. When a CLEC uses UNEs INSTEAD of building out its own copper loops, switches, etc., it avoids major capital expense, and 'rides' the RBOCs' investments made over decades. When capital flowed freely to CLECs in the 1990s, CLECs took that money and decided to build their own networks. At the time that seemed to be a rational decision: money would be available from Wall Street 'forever', and an owned network would be more profitable than a leased one – eventually. Unfortunately for those CLECs that overbuilt over wide geographic territories, i.e., the "XOs" of the world that decided there was a business case for a 'national – local' infrastructure that served (in retrospect) way too many cities, thereby never achieving density – the key to local profitability – the capital markets dried up. Left, were the liquid competitors to the Bells; AT&T and MCI (until now), who, over the last two years, have taken up UNE, or leasing, rather than constructing a second local network, as the means to compete. WHY?

AT&T and MCI are very concerned about losing long distance customers to the RBOCs. So even if UNE isn't as profitable as owning your own network, by being able to offer local service promptly (which UNE enables) and at a decent profit (which UNE enables), the long distance carriers can combat long distance customer defection, making THEIR foray into leasing local services more profitable by avoiding lost long distance revenues, than an "XO" could have.

- ► Hence, the recent rapid entry into long distance by the RBOCs has been accompanied by a rapid expansion of the use of UNEs by CLECs, principally AT&T and MCI.
- ▶ States rule over the Feds on local telephony. States have been widening the UNE discount to the detriment of the RBOCs ~ as a guid pro quo to RBOC long distance entry. Local profit margins are much fatter (45%) than long distance margins (25%), so the current trade-off is a loser for the RBOCs.



► The discount has caused much more rapid CLEC UNE use. This was seen most recently in California, where the CA PUC has recently ruled that SBC can provide long distance (SBC still must apply at the FCC). In the case of CA, AT&T got lower UNE rates BEFORE SBC was able to get into long distance, causing a timing-engendered loss as well.

Which regulators? Well, first the FCC, which took the 1996 Act that did not specify particular UNEs or what price they should be made available at. The tast FCC made a long list of UNEs and set severe discount 'frameworks' to those UNEs. Then the states got into the act by setting the actual UNE rate, i.e., the discount from retail rates offered to an RBOC's customers. These discounts can be as high as 65% At the margin, such revenue loss, accompanied by continued network costs, results in almost one-for-one profit loss – thus, the UNE is highly profit-destructive.

The regulators may allow three to four vertically and horizontally integrated providers

The only saving grace is that MCI has serious financial difficulties, and could be forced to abandon its UNE expansion program – to the Bells' benefit. In addition, AT&T, which is in much better financial shape, and can, we estimate, survive on its own for years, could be bought out by a Bell if the current telecom meltdown continues. In other words, the regulators – the FCC and DOJ – may allow the oligopolization of the telecom industry, where there are three to four vertically and horizontally integrated providers. That is, three to four old Ma Bells.

For investors, we believe that the Belis are trading near historically low multiples of EBITDA, which is the most important barometer of value, in our view. However, UNE is, at the margin, so value destructive, that we would be HOLDERs, if and until the regulators become more realistic. And if they don't, shareholders might be rewarded by a severe downsizing of MCI and/or absorption of AT&T by a Bell. Conclusion: Hold



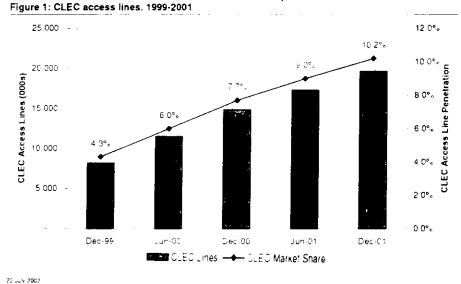
### "The cream skim" – business, population density and demographics

The current competitive policies favor rich residential customers, large businesses and states with greater population density.

45 of CLEC lines served residential and small business markets According to the FCC, 55% of CLEC lines served medium and large businesses and government customers. In contrast, just 23% of ILEC lines served such customers. Conversely, 45% of CLEC lines served residential and small business markets, while over 75% of Bell lines served lower profit residential and small business lines. Businesses and government offices are more densely packed, and spend more per access line than residents.

Thus, the ILECs are left holding the 'bag' – serving more of the costly (read: geographically dispersed) and lower paying line base. We view the 'cream skim' as one of the most compelling arguments that local competition regulation is destructive and illogical.

#### Year-end 2001E CLEC line composition



Source FCC



The goal of the 1996 Act was to create the environment for local competition, not create local competition

#### Overbuild: 33%, but in key sectors much lower

Of the 33% overbuild percentage, we estimate that under 5% of residential lines are overbuilt lines. We believe this is a telling statistic and perhaps the most important in this report. In the US at year-end 2001, there were 134m residential and small business access lines. The majority of overbuilt lines are business lines, with a concentration on medium and large sized businesses. Our view is that the current rules forcing RBOCs to reself local lines to CLECs at very deep discounts are off course. The goal of the 1996 Act was to create the environment for local competition, not create local competition. Although seemingly subtle, this is a huge distinction. The idea is that to produce new, exciting services and pricing programs requires a competitor to provide new, exciting services. How can that occur if the CLEC is reselling the RBOCs' service? With only a 33% overbuilding rate, the desired outcome of the Act is unaccomplished. The idea was to give the CLECs a means to build customer scale upon which they could then justify building their own network. since this is an industry of scale. In point of fact, the growth in UNE lines is accelerating, despite the fact that the base of CLEC customers is also expanding. With UNE, the CLECs are merely behaving as rational decision makers. If it's cheaper and less risky to resell rather than build, then resell is the answer. Unlike the long distance industry, which is less of a natural monopoly since it takes just severalbh dollars and two to three years to build a national network, except for the cream of the business market and the cream. Fe., demographically desirable (read; rich homeowners who can buy many services) residential market, a new national local network is unlikely to emerge. We won't get into "what ifs," but under a more rational local competitive framework, overbuilding might have occurred to a greater extent.

#### Sinking the sunk costs

Cable telephony penetration is increasing even faster than overall CLEC penetration

Overbuilding erases any revenue contribution from former customers or prospective customers that would have used a Bell if an overbuilding CLEC wasn't around. It fully 'strands' the lines' assets. The business base is easier to overbuild because they are located in office buildings and otherwise packed more densely. So the 'cream skim' has been accompanied by the 'overbuild' That is, for years, CLECs such as Time Warner Communications, AT&T Business and WorldCom's MFS (although we believe one of WCOM's downfall was its inability to leverage the MCI long distance base and 'backsell' an MFS local product into it) have been building their own trunks into business locations, either fully bypassing the ILEC, or perhaps renting minimal network subsegments such as the last link into a building. Now, cable telephony is copying the CLECs on the residential side. By piggybacking onto the cable television network, they found an economical way to overbuild the less dense residential base, a danger to the Bells that have concerned us for some time. FCC statistics show cable telephony penetration increasing even faster than overall CLEC penetration, and AT&T Broadband reported in Q2 02 that, for the first time, its cable telephony operations are EBITDA-positive, validation that a means to 'crack' the natural monopoly in the local residential market exists. It still takes a lot longer to deploy a cable telephony line than a UNE line. Thus, cable telephony is probably impacting residential lines' margins, but not taking significant market share yet.



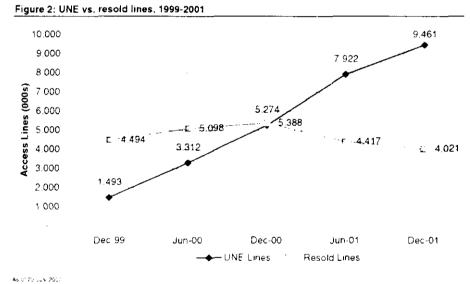
The bottom line is that competition comes in two flavors: reselling the RBOCs' network, or overbuilding. The Bells argue that low UNE rates, which can force an RBOC to resell a local line to a CLEC such as MCI "Neighborhood" for as much as 70% off of retail, aren't so bad because they at least provide some revenue across a high fixed cost structure. Also, since the line is deployed already (sunk cost), and only minimal cash is required to operate that line, an RBOC would select UNE to overbuilding as the lesser of two evils. We agree. However, with overbuilding now taking place in the business and residential ends of the local market, we expect that the value of the RBOCs' plant, i.e., their sunk costs, are falling, and that plant write downs loom. Again, the overbuilding is concentrating in the large business arenas and will occur for plant that serves large businesses, not the residential market.

#### Resale: 22%, down from 43% two years earlier

Resale is uneconomical for CLECs, so they are dropping resale lines or changing them to a UNE-P "lines" regime, which are functionally equivalent, but add 20%-40% points of gross margin to a CLEC.

points of gross margin to a CLEC

UNE-P lines and 20 -40



Source 10

UNE-P has made it possible for AT. If and MCI to compete in the residential arena.

The UNE platform is growing rapidly in use. To the CLEC the only difference between reselling and UNEs is the cost. In fact, UNE is nothing more than resale with 2-3x the discount, which comes to a 35%-60% discount. UNE-P has made it possible for AT&T and MCI to compete in the residential arena. Because it is too costly to build out less dense residential networks, UNE-P resale (and cable telephony overbuilding) are being used to penetrate the residential and small business market. According to the FCC, CLECs served 4.6% of those markets at the end of 2000, and 6.6% of such markets by year-end 2001. There were 9.5m UNE loops at year-end 2001, up from 8m six months earlier. About 61%, or 5.8m lines, were UNE-P lines that included switching, and the rest (3.7m) were UNE loops, where the CLEC just leases the

UNE: 47% (24% at YE 1999) - erased 2% of bell equity?



copper loop, and provides the other network elements. UNE-Loops cause the largest revenue loss under the local wholesale scheme. However, UNE loop sales snould ameliorate, in our view.

ILECs lost 1.5m lines in the last six months of 2001 in the form of UNEs to CLECs, which we estimate comes to \$1 bin in lost annualized sales, most of which is pure profit. In a six-month span, then, after taxes, ILEC bottom lines lost about 5325m in net income, and \$4.2bn in market capitalization, assuming a 13x P/E multiple. The Bells control about 94% of the nation's incumbent access lines, so the RBOCs, primarily through UNE, lost \$4bn in market capitalization in the last half of 2001. The Bells currently have a \$220bn equity market cap, meaning that CLECs conceivably destroyed 2% of Bell equity value in the second half of 2001, assuming our estimates are reasonable and that the market actually "made" this observation and factored it into stock prices. There is no assurance RBOC stocks didn't decline due to other reasons, and that the UNE-P issue has yet to be factored into the stocks.

Case study: AT&T UNEs

AT&T's new senior management states that the UNE-P platform is expected to be as successful in penetrating the business market as it has been in the residential market. Today, T has some 3.2m local lines, of which 500,000, or 15%, are UNE-P-based. That percentage will increase We estimate that the UNE-P platform will be instrumental in enabling AT&T to reach its goal of \$10bn in annual business local instrumental in enabling AT&T to reach its goal of \$10bn in annual business local sevenues in five years. Note: it takes T about two years for UNE-P, on its own, to breakeyen, excluding the positive impacts of bunding long distance with UNE-P.

breakeven, excluding the positive impacts of bundling long distance with UNE-P.

#### From a macroeconomic point of view there are several concertis with the UNE-P

- consumers), rather than being left to market forces.
- In the longer-term, it could nob consumers of advanced services that require the RBOCs' plentiful cash flow to fund
- system

  system

UNE is a creation of the prior FCC administration. Only network elements such as switching, local loop costs and other various network elements were required under the 1996 Act to be sold at reasonable discounts to the CLEC. The FCC decided that the ILECs were required to "rebundle" these elements and sell them at much steeper to be the retail price charged by the Bell less avoidable costs such as selling costs. That was interpreted to mean a 20%-25% discount to retail. However, the CLECs didn't have any margin left over for a profit. We're not sure, however, that profit was required by the Act. At the end of the day, the spirit of the Act was to deliver a required by the Act. At the end of the day, the spirit of the Act was to deliver a required by the Act. At the end of the day, the spirit of the Act was to deliver a required by the Act. At the end of the day, the spirit of the Act was to deliver a mechanism to jumpstart local competition, and we interpret that to mean to develop a mechanism to jumpstart local competition, and we interpret that to mean to develop a

bd Iliw mhothsig 9-3MC ant T TA gnildsna ni Isinamuttani ni ndOf To Isog ati rbash ot ni ndOr Ison asaniand Isunns esaniavat Ison asaniaud Isunns atsay avit ni



mechanism to allow competitors to build up a large enough base of customers – either through UNE elements or resale to THEN justify building their own network.

#### Regulators forgot to notice that wireless is local competition, too

In its July 2002 Local Telephone Competition report, the FCC reported that US wireless subscribers increased from 79.7m at year-end 1999 to 122.4m by year-end 2001, or a 23.9% CAGR. With wireless carriers offering big bucket minute plans including features like Caller ID and free roaming, wireless phones are replacing landlines for many consumers. As wireless companies continue to build out their networks and improve service quality, wireless displacement will increasingly displace RBOC landlines.

Wireless displacement is not only affecting primary access lines, but is having a devastating effect on RB. C. second lines.

Wireless displacement is not only affecting primary access lines, but is having a devastating effect on RBOC second lines. Second line growth for the RBOCs is declining rapidly, primarily as a result of wireless displacement of these second lines. For example, BLS reported a Q2-02 second line YoY growth decline of 10.6%, while SBC's second lines declined 8.7% YoY in Q2-02. Historically, second lines have increased as much as 15%-20% YoY, and just two quarters ago we estimate that these second line were declining approximately 5%. If we estimate that the RBOCs combined for 17m second lines at year-end 2001, and each second line generates \$5 per month with a 65% EBITDA margin, then \$633m of EBITDA was generated from RBOC second lines in 2001. This \$633m of EBITDA is in danger of being reduced by 10% per year, primarily due to wireless displacement.

#### End result \$1.4bn decline over last year Figure 3: RBOC local wireline

Revenues (\$000s)	01 01	02 01	Q3 D1	Q4 B1	01 02	Q2 <b>Q</b> 2
VŽ	10,920	10.953	10 666	*0 539	10 474	10 468
YeY growth	2 <b>9°</b> •	0.3%	500	3 €°。	-4 1%	-4 4%
SBC	10113	10 334	10 201	10 043	9.781	9,737
YoY growth	5 °C.	364	1 0%	-1.5%	·3 3%	5 <b>8%</b>
8_8	4 612	4 722	4 733	4 757	4 614	4 586
YoY growth	3 C°°	3 6°°	4 6° 0	4 4%	C 0%	-2 9%
۵ <u>.</u>	3 577	3 620	3 637	3 706	3 468	3 434
YoY growth	na	na	na	na	3 0°°	5 1%
Tota:	29 222	29 629	29 237	29 045	28 337	2 <b>8 22</b> 5
YcY growth	3 7°€	2 2°.	C 4%	-1 3%	3 0%	-4 7%

Source Verizon SBC Communications (Jiwes) BellSouth



Regulators have moved to an active stance to redesign the industry

#### Regulators hurting consumers in long run

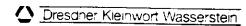
The combination of very effective lobbying on the part of small and large (read: AT&T) CLECs, and a democratic FCC (thought to be friendly to long distance and CLECs, not RBOCs) prodded the FCC to create the UNE-Platform, or UNE-P. The FCC decided that UNEs should be priced at a theoretical level, that is, what would it cost for a brand new local network to add an access line. The assumptions include state-of-the-art networks throughout, and perfect capital and man-hour deployments. In other words, we believe these are imaginary, non-historic; therefore, in our opinion, this is an unreasonable way to regulate an industry. Another related issue is that of regulation altogether. In the 10 years of covering this industry, regulators have, in our view, taken an exponentially more involved role in the "day-to-day" decisions about pricing, mergers, service offerings, inter-carrier relationships, etc. than before the 1996 Act. It wasn't supposed to turn out that way. Regulators have moved to an active stance to redesign the industry, from a passive stance where carriers knew the rules and operated freely within them. They knew what their returns would be, and didn't have to make the very risky types of investments RBOCs have made in the past few years to compensate for the loss of growth in the core business that has destroyed shareholder value. On top of that the regulators have had the nerve to regulate the newer high-risk capital return projects such as DSL. Now every carrier move is scrutinized by a state or FCC hearing, slowing down the communications revolution of the late 1990s. In the short run, the consumer wins with these artificially lowered local rates. In the long term, the consumer will suffer as ILECs cut their capital budgets by 30%, which will produce fewer services, more network outages, and crummier customer service. The regulators don't understand that the local industry, unlike the long distance industry, is the closest thing in telecoms to a "natural" monopoly. Wireless, long distance and undersea networks cost less per DS-0 to build, and are constructed in a matter of months or a year or two, not the many years it takes to build a local landline network.

Figure	Figure 4: Dresdner Kleinwort Wasserstein RBOCs	erstein F	BOCs (	earnings universe	unive	Se													
			Price	Target	:	:	:		1	i			:		:	Fat 5-vr	Ě		1
Ġ	,		(08%)	price	Fiscal		52-week (US\$)		Earnings per share (US\$) QIrly, EPS (US\$)	re (USS)	Olrly, E	PS (US\$)		P/E 13	P/E ratio (x)		Ą	Yield	Cap.
ratibg	Company	Symbol	20 Ang.	(n2\$)	year	H.g.	High Low	2001A	2001A 2002E	2003E	Yr. ago	Yr. ago Curr. est. 2	2001A	2002E 2003E	2003E	%	(BSS)	(%)	(US\$m)
Hold	BellSouth Corp	R.S	RLS \$25.50	\$280	Dec	\$42.95	\$20 10	\$2.21	\$2.15	\$2.23	\$0.59	\$0.53	1.5x	ğ	11.4x		40.80 3.1%		\$46.076
Hold	Owest Communications	O	\$2.95	\$2 00	OPc	\$24 00	\$24.00 \$1.07	\$0.05	\$0.52	\$0.40		\$1 U\$	, C	NIM AIR	YEV		4000	0 0	
Hold	SBC Communications (1)	SBC	SBC \$27.68	•,	Oec	\$47.50 \$	\$22.20	\$2.35	\$2.31 \$2.41	\$2.41		40.55	1. S	12 04	ב בי		0 40 14 0 40 14	32 2% \$4 5/8	4 5/3 040
∮lold	Hold Verizon Communications (1)		VZ \$31.80	\$38 00	Dec	\$55.99	\$26.01		\$3.06	\$3.15		\$0.78	10.6				9 1	00 m 00	600.949
1.00	(1) Monot berts has a long position in the componies area of this security.	Presenting										2	2		2		4 570	10% 9CD	\$40,074

ŝ		
i		
11.11		
i		
ı		
ı		
į		
i		
İ	<u>č</u>	
i	Ξ	
ļ	Ē	
	č	
ı	ž	
l	ž	
	≛	
	-	
	ž	
	Ē	
	÷	
	_	
	₹	
	Ξ'	
	₽.	
	_	
	q:	
	≝	
	ξ	



### Notes





#### Mr. Roberts has a long position in the common shares of SBC Communications and Verizon Communications.

DrKW is a full service firm that offers many services and products to a wide variety of clients. The reader should assume that DrKW has received or may receive compensation for those services with respect to any of the companies mentioned herein.

This report has been prepared by Diresdner Kleinwori Wasserstein, by the specific legal entity named on the cover or inside cover page

The views expressed in this research report accurately reflect the research analystis analysts own views about the securities and companies mentioned in this report.

United Kingdom. This report is a communication made or approved for communication in the UK, by Dresdner Kleinwort Wasserstein Securities Limited (regulated by the Financial Services Authority, and a Member Fam of the London Stock Exchange.) Is directed exclusively to marker counterparties and intermediate customers it is not directed at private customers and an investments or services to which the report may relate are not available to private customers. No persons other than a market counterparty or an intermediate customer should read or rety on any information in this report. Diresoner Kleinwort Wasserstein Securities Limited does not deal for or advise or cinetwise other any investment services to private customers.

European Economic Area. Where this report has been produced by a legal entity outside of the EEA, the report has been relissued by Diresdrier Kielinwort Wasserstein Securities Limited for distribution into the EEA.

United States. Where this report has been approved for distribution in the US, such distribution is by either

- () Dresdner Kleinwort Wasserstein Securities LLC (DrKWS L. C.
  - Dresdner Kleinwort Wasserstein, Grantchester, Inc. (DrKW, Gr
- By other Dresdner Kleinworf Wasserstein companies to US institutional investors and Major US institutional investors only in each case DrkWS LLC and/or DrkW. G accepts responsibility for this report in the US Any US persons wishing to effect a transaction through Dresdner Kleinworf Wasserstein in any security mentioned in this report may only do so through DrkWS LLC telephone. [-1.212, 429, 2000 or DrkW. G felephone. [-1.212, 969, 2700]

Singapore This report is being distributed in Singapore by Dresdner Bank AG. Singapore Branch to clients who fall within the description of persons in Regulation 44 (b) (in to (iii) of the Securities industry Regulations

Hong Kong: This report is being distributed in Hong Kong by Dresdner Bank AG. Hong Kong Branch to persons whose business involves the acquisition, disposal or holding of securities.

Japan: Where this report is being distributed in Japan, such distribution is by either in Diesoner Kleinwort Wasserstein Luapan, Limited. Tokyo Branch (DikWiJI) to Japanese investors excluding private customers or till other Diesoner Kleinwort Wasserstein companies, to entities falling within Arisole 2. Paragraph 1 of the Cabinet Ordinance for Enforcement of the Foreign Securities Firms Act. Any Japanese persons not falling within III) wishing to effect a transaction through Diesoner Kleinwort Wasserstein in any security mentioned in this report may only do so through DirKWIJ), telephone in 813: 5403-5500.

The information and outprots in this report constitute judgment as at the date of this report and are subject to change without notice. Any price targets shown for companies discussed in this report may not on achieved due to multiple risk factors including without limitation marker volatility according to companie and accurate information and/or the subsequent transpration that underlying assumptions made by DrKW or by other sources executive mentioned in this report and reasonable (Neumon') Wasserstein and/or any of its clients may undertake in rave undertaken transparations for their own account in the securities mentioned in this report to your receipt of it. Dreadner Kleinwort Wasserstein may provide investment banking services uncluding without limitation corporate limitation components in solicid such business for the issuers of the securities mentioned in this report. Accordingly, intomation may be available to Dresdner Kleinwort Wasserstein which is not reflected in this report. Dresdner Kleinwort Wasserstein and its directors officers representatives and employees may have positions in or options on the securities mentioned in this report and report and pretated investments or may but a set this report or any related investments as principal or agent on the open market or otherwise. This report open and any related investments or may but will select the sources of any related investments as principal or agent on the open market or otherwise. This report open not constitute or form pain of and should not according to any verification to offer to buy or subscribe for any securities not should it or any part of form the treats of or be released in any open and as one of form the treats of or be released in any open and as one of form the treats of or the relation of any open and as one of the relation of the protein the protein and any open and as one of the relation of a protein securities or any direct or consequential loss or damage arising from any use of this report or its orients. Whist Diesdner Kl

© Dresdner Kleinwort Wasserstein Securities Limited 2002

	DRESDNER KLEINWORT WASSER	RSTEIN RESEARCH - RECOMMENDATIO	ON DEFINITION
Except as no	therwise holed, expected performance over next 12 months		
. Bus	10% or greater increase in share price	Anduce	5 10% decrease in share price
A JC	5.10% increase in share price	Se'	10% or more decrease in share price
muid	+ <sup>61</sup> a - 51 a variation in share price		

